

Title (en)
MULTIPHASE SYSTEM COMPRISING A POWER CONVERTER WITH THROUGH-OUTPUT COUPLED INDUCTORS, METHOD FOR PRODUCING THE SAME

Title (de)
MEHRPHASIGES SYSTEM MIT EINEM STROMRICHTER MIT DURCHGESCHALTETEN GEKOPPELTEN INDUKTIVITÄTEN, VERFAHREN ZUR HERSTELLUNG DESSELBEN

Title (fr)
SYSTÈME MULTIPHASE COMPRENANT UN CONVERTISSEUR DE PUISSANCE AVEC DES INDUCTEURS COUPLÉS EN SORTIE, PROCÉDÉ DE FABRICATION DE CE SYSTÈME

Publication
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Application
EP 22306250 A 20220824

Priority
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Abstract (en)
The present invention concerns a multiphase system comprising a power converter having at least two legs and a filtering device connected to the at least two legs of the power converter, the filtering device being composed of at least two inductors, each inductor being composed of turns wound around a magnetic material. The magnetic material is disposed within at least one printed circuit board that comprises connections of the inductors and the filtering device further comprises a conductive material surrounding the at least two inductors, a first terminal of each inductor being respectively connected to one leg of the power converter and one terminal of the conductive material is connected to the second terminals of the inductors.

IPC 8 full level
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Citation (search report)
• [A] EP 3896707 A1 20211020 - SIEMENS AG [DE]
• [A] EP 4040656 A1 20220810 - SIEMENS AG [DE]

Designated contracting state (EPC)
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